

SIGNALING TRANSPORT OVER A BEARER NETWORK FOR LOW LATENCY SERVICES

Abstract

5 A wireless communication network is disclosed comprising a base station system, a
switching system, and a transport network. The transport network comprises a conventional
signaling network configured to transport call signaling and a bearer network configured to
transport user communications. The bearer network also transports call signaling, as special
connections are established and a portion of the capacity of the special connections are
10 reserved for transporting call signaling. In response to receiving call signaling from a
mobile wireless device or a packet data network, the base station system or the switching
system determines if the call signaling is for a low latency service. If the call signaling is
for a low latency service, then the base station system or the switching system forwards the
call signaling over the special connection. If not, then the base station system or the
15 switching system transmits the call signaling over the conventional signaling network.